Claims

[c1]

1. A device for adjusting the vertical position of an object relative to a supporting surface, comprising: a base adapted for placement on the supporting surface; a support member adapted for placement adjacent the object; vertical positioning means for providing adjustment of the vertical position of the support member relative to the base member, and thereby adjustment of the vertical position of the object relative to the supporting surface; and securing members for selectively fixing the vertical position of the support member relative to the supporting surface.

[c2]

2. A skid for mounting a first and second piece of equipment requiring horizontal axial alignment, the skid comprising:

a pair of laterally disposed base members,

a first support member for supporting the first piece of equipment, and

a second support member for supporting the second piece of equipment,

wherein at least one of the first and second support members is releaseably attached to and between the pair of base members and is adjustably positioned relative to the pair of base members to substantially provide the required horizontal axial alignment of the first and second pieces of equipment.

[c3]

3. The skid according to claim 2, wherein the second support member is releaseably attached to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c4]

4. The skid according to claim 3, wherein the second support member comprises a second pair of cross members and wherein each of the second pair of cross members is releaseably attached at their ends to and between the pair of base members forming a right parallelogram and is adjustably positioned in the vertical direction relative to the pair of base members.

[c5]

5. The skid according to Claim 4, wherein the first support member comprises a first pair of cross members, wherein each of the first pair of cross members is attached at their ends substantially perpendicular to the base members forming a right parallelogram.

[c6]

6. The skid according to claim 3, wherein the second support member comprises:

a second mounting plate having a pair of opposing edges and

a second pair of side walls extending perpendicularly from the pair opposing edges of the second mounting plate, wherein the second support member is releaseably attached at the second pair of side walls to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c7]

7. The skid according to Claim 6, wherein the first support member comprises a first pair of cross members, wherein each of the first pair of cross members is attached at their ends substantially perpendicular to the base members forming a right parallelogram.

[c8]

8. The skid according to claim 3, wherein the first support member is releaseably attached to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c9]

9. The skid according to claim 8, wherein the first support member comprises:

a first mounting plate having a pair of opposing edges and

a first pair of side walls extending perpendicularly from the pair opposing edges of the first mounting plate, wherein the first support member is releaseably attached at the first pair of side walls to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c10]

10. The skid according to claim 9, wherein the second support member comprises:

a second mounting plate having a pair of opposing edges and

a second pair of side walls extending perpendicularly from the pair opposing edges of the second mounting plate, wherein the second support member is releaseably attached at the second pair of side walls to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c11]

11. The skid according to Claim 3, wherein the first support member comprises a first pair of cross members, wherein each of the first pair of cross members is attached at their ends substantially perpendicular to the base members forming a right parallelogram.

[c12]

12. The skid according to claim 11, wherein each of the first pair of cross members is releaseably attached to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c13]

13. The skid according to claim 12, wherein the second support member comprises a second pair of cross members and wherein each of the second pair of cross members is releaseably attached at their ends to and between the pair of base members forming a right parallelogram and is adjustably positioned in the vertical direction relative to the pair of base members.

[c14]

14. The skid according to claim 12, wherein the second support member comprises:

a second mounting plate having a pair of opposing edges and

a second pair of side walls extending perpendicularly from the pair opposing edges of the second mounting plate, wherein the second support member is releaseably attached at the second pair of side walls to and between the pair of base members and is adjustably positioned in the vertical direction relative to the pair of base members.

[c15]

15. The skid according to Claim 3,

wherein each of the pair of base members has a vertical surface with a first plurality of vertically disposed holes extending horizontally through the vertical surface and defining at least one horizontally aligned set of holes, and

wherein the second support member has at least

a mounting plate and

a pair of side walls extending perpendicularly from a pair opposing edges of the mounting plate, wherein each of the pair of side walls has a second plurality of vertically disposed holes extending horizontally through the side walls and defining at least one horizontally aligned set of holes parallel to the mounting plate and which correspond to the at least one horizontally aligned set of holes in the pair of base members, and

the skid further comprising a plurality of fasteners inserted through the corresponding at least one horizontally aligned set of holes in the pair of side walls and in the pair of base members releaseably securing the second support member to the pair of base members at a selected vertical position relative to the pair of base members.

[c16]

16. The skid according to claim 3,

wherein each of the pair of base members has a vertical surface with a first plurality holes extending horizontally through the vertical surface and defining at least one horizontally aligned set of holes, and

wherein the second support member comprises

a second pair of cross members, wherein each of the second pair of cross members is releaseably attached at their ends substantially perpendicular to the base members forming a right parallelogram, wherein each of the ends of the second pair of cross members has at least one attachment hole,

wherein the first plurality of holes are positioned on the vertical face of each of the pair of base members such that the second pair of cross members are attached at a selected vertical and horizontal position to achieve the desired axial alignment of the first and second pieces of equipment, and

wherein each of the second pair of cross members has a horizontal surface with a second plurality of holes for attaching the second piece of equipment, and

the skid further comprising a plurality of fasteners inserted through a corresponding set of holes in the ends of the corresponding one of the second pair of cross members with at least one horizontally aligned set of holes in the pair of base members releaseably securing the second pair of cross members to the pair of base members at a selected vertical and horizontal position relative to the pair of base members.

[c17]

17. The skid according to claim 8,

wherein each of the pair of base members has a vertical surface with a first and second plurality of vertically disposed holes extending horizontally through the vertical surface and defining at least a first horizontally aligned set of holes and a second horizontally aligned set of holes, and

wherein the first support member has at least

a first mounting plate and

a first pair of side walls extending perpendicularly from a pair opposing edges of the first mounting plate, wherein each of the first pair of side walls has a third plurality of vertically disposed holes extending horizontally through the side walls and defining at least a first horizontally aligned set of holes parallel to the first mounting plate and which correspond to the first horizontally aligned set of holes in the pair of base members, and

wherein the second support member has at least

a second mounting plate and

a second pair of side walls extending perpendicularly from a pair opposing edges of the second mounting plate, wherein each of the second pair of side walls has a fourth plurality of vertically disposed holes extending horizontally through the side walls and defining at least a second horizontally aligned set of holes parallel to the second mounting plate and which correspond to the second horizontally aligned set of holes in the pair of base members, and

the skid further comprising a plurality of fasteners inserted through the corresponding first and second horizontally aligned sets of holes in the first and second pairs of side walls and in the pair of base members releaseably securing the first support member to

the pair of base members a selected first vertical position relative to the pair of base members and releaseably securing the second support member to the pair of base members a selected second vertical position relative to the pair of base members.

[c18]

18. The skid according to Claim 2, wherein the first piece of equipment is a pump and the second piece of equipment is a motor for driving the pump.

[c19]

19. A method for adjusting the vertical position of a support member relative to a pair of base members, the method comprising:

providing the support member having an upper support surface and at least a pair of end surfaces with a first plurality of holes vertically disposed on and horizontally extending through the pair of end surfaces,

providing the pair of laterally disposed base members with a second plurality of holes, wherein each of the pair of base members has a vertical surface and an upper horizontal surface;

placing the support member between the pair of base members;

selecting a first set of horizontally aligned holes from the first plurality of holes and the second plurality of holes corresponding to a selected vertical relative placement between the upper support surface and the upper horizontal surface; and

releaseably engaging the first set of horizontally aligned holes with a first plurality of securing members to fix the vertical position of the upper support surface relative to the upper horizontal surface.

[c20]

20. The method of claim 19, the method further comprising:

providing the upper support surface with a third plurality of holes for mounting a piece of equipment having mounting holes;

placing the piece of equipment on the upper support surface; and

releaseably attaching the piece of equipment to the upper support surface with a second plurality of securing members using a set of holes of the third plurality of holes corresponding to the mounting holes.